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FILE 'BIOSIS, CAPLUS, EMBASE, MEDLINE, CANCERLIT, JAPIO' ENTERED AT 17:38:27 ON 05 APR 2004

- L1 21 S (ANTIBOD? RECOGNITION EPITOPE)
- L2 9 DUPLICATE REMOVE L1 (12 DUPLICATES REMOVED)
- L3 3329 S (ANTIBOD? BINDING SITE?)
- L4 93 S L3 AND REVIEW?
- L5 13 S L4 AND (AMINO ACID)
- L6 9 DUPLICATE REMOVE L5 (4 DUPLICATES REMOVED)

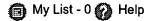
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ANSWER 1 OF 2 CAPLUS COPYRIGHT 2004 ACS on STN
     1986:623969 CAPLUS
AN
     105:223969
DN
ED
     Entered STN: 26 Dec 1986
ΤI
     Relative importance of position and individual amino
     acid residues in peptide antigen-antibody interactions:
     implications in the mechanism of antigenic drift and antigenic shift
     Houghten, Richard A.; Hoffmann, Sarah R.; Niman, Henry L.
ΑU
CS
     Dep. Mol. Biol., Scripps Clin., La Jolla, CA, 92037, USA
SO
     Vaccines 86, New Approaches Immun., [Proc. Conf.] (1986), Meeting Date
     1985, 21-5. Editor(s): Brown, Fred; Chanock, Robert M.; Lerner, Richard
     Alan. Publisher: Cold Spring Harbor Lab., Cold Spring Harbor, N. Y.
     CODEN: 55ENAN
DT
     Conference; General Review
LΑ
     English
CC
     15-0 (Immunochemistry)
     A review and discussion with 11 refs. of the effects of
AΒ
     amino acid substitutions on monoclonal antibody binding
     to a 13 residue segment of influenza hemagglutinin. Antigenic drift may
     be due to mutations in a relatively small number of amino
     acids in the antigenic determinant.
ST
     review hemagglutinin antibody antigenic drift
IT
     Antibodies
     RL: BIOL (Biological study)
        (antigen binding by, amino acid
        residues role in)
IT
     Antigens
     RL: BIOL (Biological study)
        (antigenic drift in, amino acids role in)
IT
     Peptides, biological studies
     RL: BIOL (Biological study)
        (antigenic, antibodies binding to and antigenic drift in, amino
        acid residues role in)
IT
    Amino acids, biological studies
     RL: BIOL (Biological study)
        (in antigenic drift and antibody binding to antigens)
ΙT
    Agglutinins and Lectins
     RL: BIOL (Biological study)
        (hemagglutinins, antigenicity of, drift in, amino
```

acid residues role in)

```
ANSWER 4 OF 10 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
     1993:120143 BIOSIS
AN
     PREV199395064243
DN
     Fine specificity of antibody recognition of carcinoma-associated
TI
     epithelial mucins: Antibody binding to synthetic
     peptide epitopes.
     Briggs, Shaun; Price, Michael R. [Reprint author]; Tendler, Saul J. B.
ΑU
     Cancer Res. Campaign Lab., Univ. Nottingham, Nottingham NG7 2RD, UK
CS
     European Journal of Cancer, (1993) Vol. 29A, No. 2, pp. 230-237.
SO
     CODEN: EJCAEL. ISSN: 0959-8049.
DT
     Article
LΑ
     English
ED
     Entered STN: 27 Feb 1993
     Last Updated on STN: 27 Feb 1993
AΒ
     The protein core of polymorphic epithelial mucins consists predominantly
     of a repeating 20 amino acid peptide motif. Many monoclonal
     antibodies reactive with breast carcinomas recognize determinants located
     within the mucin protein core, and epitope mapping techniques have
     demonstrated that these antibodies bind to epitopes of
     three, four or five amino acids within the hydrophilic sequence, P D T R P
     A P. Each of these mucin core-reactive antibodies map to epitopes
     containing the central arginine residue. The fine specificity of a panel
     of antimucin antibodies binding to the tetrameric
     peptides P D T R or R P A P (synthesized on the heads of polyethylene
     pins) was examined by systematically replacing each amino acid in turn
     with all other 19 natural amino acids, and then testing these analogues
     for antibody binding. We have (i) identified those
     amino acids in epitopes which are essential for antibody
     binding, (ii) shown that for each epitope there is a hierarchy of
     residues required for immune recognition-certain amino acids may be
     replaced with little or no loss of antibody binding,
     while the presence of others is essential, and (iii) concluded that
     antibody specificity is further regulated by the residue(s) flanking an
     epitope motif which may impose conformational constraints upon the
     presentation of the epitope to an antibody.
     Biochemistry studies - Proteins, peptides and amino acids
     Biochemistry studies - Carbohydrates
                                            10068
     Pathology - Diagnostic
                              12504
     Pathology - Therapy
                           12512
     Reproductive system - Pathology
                                       16506
     Neoplasms - Diagnostic methods
                                      24001
     Neoplasms - Immunology
                              24003
     Neoplasms - Pathology, clinical aspects and systemic effects
                                                                    24004
     Neoplasms - Therapeutic agents and therapy
IT
     Major Concepts
        Oncology (Human Medicine, Medical Sciences); Reproductive System
        (Reproduction)
IT
    Miscellaneous Descriptors
        BREAST CANCER; DIAGNOSIS; THERAPY
ORGN Classifier
       Hominidae
                    86215
     Super Taxa
        Primates; Mammalia; Vertebrata; Chordata; Animalia
     Organism Name
        human
     Taxa Notes
       Animals, Chordates, Humans, Mammals, Primates, Vertebrates
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Vaccines 86: new approaches to immunization: developing vaccines against parasitic, bacterial, and viral diseases /

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Alt. Titles:

Vaccines eighty-six.

New approaches to immunization.

Author:

Brown, Fred, 1925-

Chanock, Robert M.

Browse Catalog

Lerner, Richard A. (Richard Alan), 1938-

Imprint:

Cold Spring Harbor, N.Y.: Cold Spring Harbor Laboratory, 1986.

by title:

Notes:

Proceedings of a conference held at Cold Spring Harbor

Laboratory.

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